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# **Program Executive Officer PEO C4I and Space**

## ***Acquiring and Delivering C4I Capabilities for FORCEnet***

23 October 2003  
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***PEO C4I & SPACE***



# PEO C4I and Space

## *Overview*

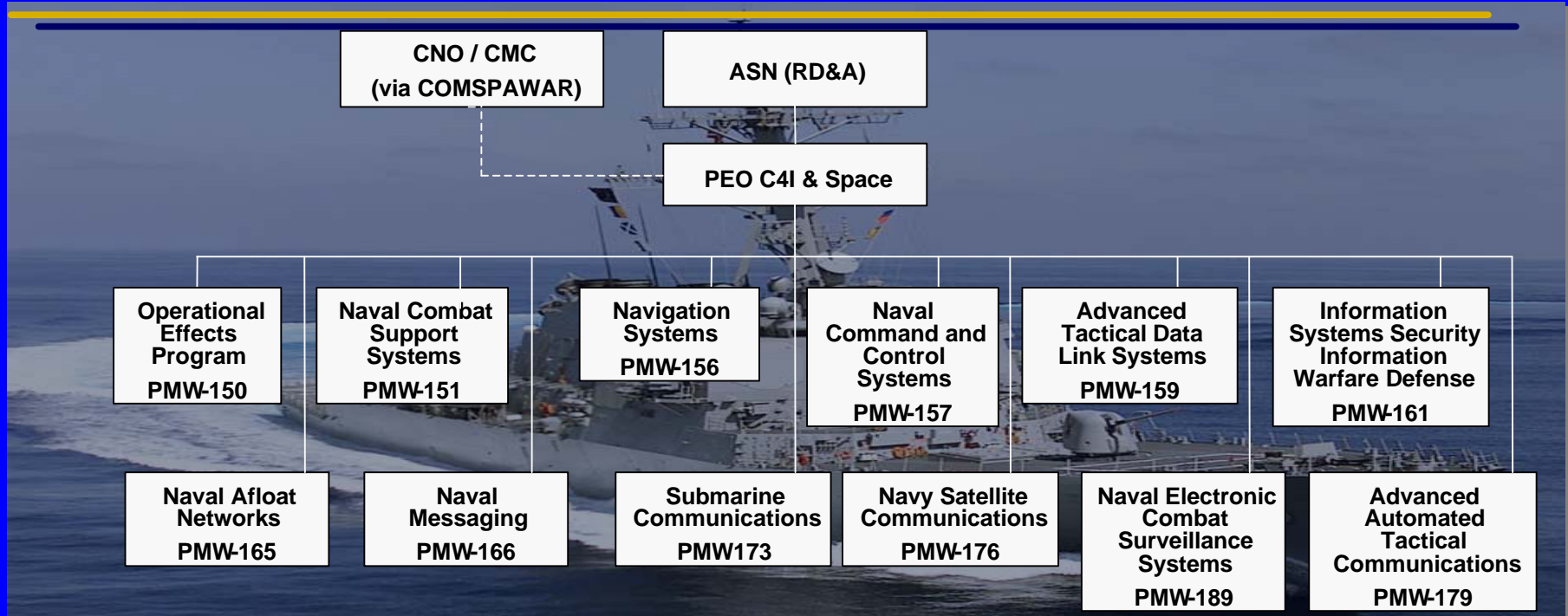
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- ❖ **Organizational Profile**
- ❖ **Focus Areas**
- ❖ **Capabilities in Support of FORCEnet**
- ❖ **Questions**



# PEO C4I and Space

## ORGANIZATIONAL PROFILE



**Mission: Acquire, Integrate, Deliver and Support Interoperable C4I & Space Capabilities Enabling Seamless Operations for Fleet, Joint and Coalition Warfighters**

**Vision: Be the Preeminent Provider of Transformational Network Centric Warfare Capability Enabling Decision Superiority**

- Responsible for all aspects of life-cycle management
- Report to ASN RD&A for acquisition responsibilities of assigned programs;
- Report to CNO / CMC (through SYSCOM Commander) for in service support
- Total control of available resources - \$2.1B annual budget (approx)



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# PEO C4I and Space

## *FY03 Focus Areas*

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### ❖ **Stand-up an Enduring PEO Organization**

- Increased Focus on Acquisition
- Offload "Legacy" and "Sustainment" programs (post-milestone III/C)
- Reduce non-ACAT efforts

### ❖ **Acquisition Alignment**

- Integration Across PEOs
- Joint product Emphasis
- Align programs to realize FORCEnet

### ❖ **Program Stability**

- Processes Aligned to "Execute to Plan"
- Stabilize execution Year
- Put Planning in the Programming years



# DoN Materiel Establishment Effectiveness and Efficiency Study

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**The DoN Materiel Establishment study recommended strengthening the requirement / budgeting processes to increase acquisition program stability.**

- Instability affects program planning & progress
- Changes the dynamic of the cost/schedule/technical risk equation
- Potentially lowers overall effectiveness in meeting mission needs

**Program instability was identified as the most significant impediment to increased efficiencies**

- Instability causes PM to enter into multiple excursions during planning and execution
- Takes “eye off the ball”
- Stresses limited staff resources internally and externally

***Program stability is a key enabler that must be in place to realize the full benefits of other improvements in program acquisition***



# Program Stability

## *Problem and Solution*

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### ❖ Problem: Unstable work plan

- 98% Funding realignment in the execution year (FY02)
  - TOA: \$305M
    - Realigned Dollars: \$292M
    - Matrix rebaselined 8 times
      - Volatility spanning the entire execution year
- Installation cost increase unchecked

### ❖ Solution: Re-establish proper authority

- Realign execution to match President's Budget
- Push planning and requirement generation back into the appropriate PPBE process time frame
- Focus attention on achieving installation cost efficiencies

### ❖ Goal: Improved stability, efficiency, and capability delivery

*Build the Plan*

*Fund the Plan*

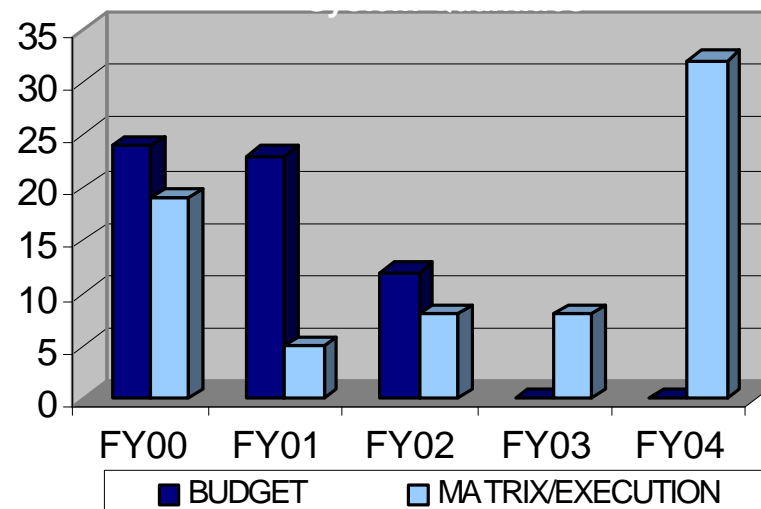
*Execute the Plan*



# Program Stability

## *Impact of an unstable work plan – SHF Example*

- ❖ **Matrix “Cost of Responsiveness” has resulted in**
  - Inability to take advantage of large terminal procurement quantity price discounts
  - Due to FOC moving right, contract expired and a follow-on is required
- ❖ **Fleet Loss**
  - \$63M re-allocated from SHF to under funded programs FY 00-02
  - Twenty-Seven(27) procurements and thirty-seven(37) installations
- ❖ **Program Impacts**
  - Unable to execute basic SHF capability fielding to ships specified in the program ORD
  - Increased costs
  - New Contract costs
  - Quantity discount losses







# PEO C4I and Space

## *FY04 Focus Areas*

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### ❖ Program Stability

### ❖ Cost Performance

- Installations
- Program Office Cost Performance

### ❖ Develop Our People

### ❖ Improved Metrics aligned to

- President's Management Agenda
- DoD/DoN FY04 priorities
- PEO Focus Areas for FY04

### ❖ Rationalize Programs/Projects

- Selected Projects > Programs of Record
- Program Offloading



# Cost Performance

## *Evolutionary Acquisition: Tactical Cryptologic Systems*

### ❖ Challenge:

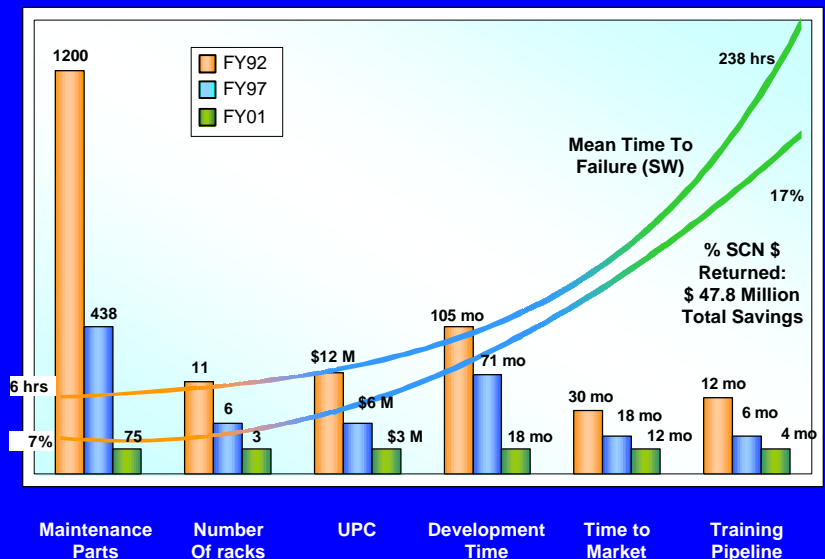
- Achieve efficiencies via evolutionary acquisition, organizational streamlining, technology insertion, and divestment of non-core functions

### ❖ Solution:

- 18 month Evolutionary Acquisition cycle
- Converge programs, PM organization, and funding lines
- Use of IT/COTS technology
- Involve sailors and testers early
- Delegated legacy program execution to Echelon III

### ❖ ROI:

- \$47.8 Million SCN saved
- Unit price reduced from \$12 M to \$3 M.
- Mean Time To Failure (Software) increased from 6 to 238 hours.



***Maximize flexibility to deliver best value solutions***



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# OIF Lessons Learned

CONGRESSIONAL TESTIMONY  
BY SECDEF & GENERAL FRANKS

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❖ **C2:** Command and Control of air, ground, naval, & SOF from 7,000 mi. away: “unique experience in warfare”

➤ Permitted unprecedented real time situational awareness & connectivity

❖ **Precision-guided munitions:** a force multiplier

➤ Low collateral damage was fundamental factor to achieving objectives

❖ **Armed Predator:** demonstrated great potential

➤ will be a high payoff system in the future

❖ **Blue Force Tracking/ enhanced C4I systems:** increased lethality and decreased response time

➤ Transformational technologies

***“C4I Systems are moving from systems that support combat capable platforms, to essential components of the combat systems themselves”***

RADM John Kelly, Commander, Abraham Lincoln Carrier Strike Group



# OIF Lessons Learned

## *What worked especially well*

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### ❖ Chat tools and capabilities (IRChat, MS Chat, Sametime, etc)

- Observed Ao > 98% (still needs to be higher)
- Relieved voice networks and a considerable amount of C2 requirements

### ❖ Collaboration At Sea — networks/websites in SIPR

- Relieved congested message traffic

### ❖ CENTRIX

- Provided secure C4ISR networks for coalition interoperability



# Making Network Centric Warfare (NCW) a Reality

## **PEO Strategic Objective:**

**Transform our systems so that our entire C4I and Space enterprise can be operated as a single warfighting “weapon”**

## **Examples of where PEO is engaged to make NCW a Reality:**

- **Common approach to software development (RAPIDS)**
- **Communications Roadmap**
- **Joint Tactical Radio System (JTRS)**
- **FORCEnet deliveries TODAY**

***Delivering FORCEnet Capabilities  
Effectively & Efficiently***



# Common Approach to S/W Development



## ❖ Reusable Application Integration and Development Standards (RAPIDS)

- It's not an architecture, it's the building codes

### ❖ Goals

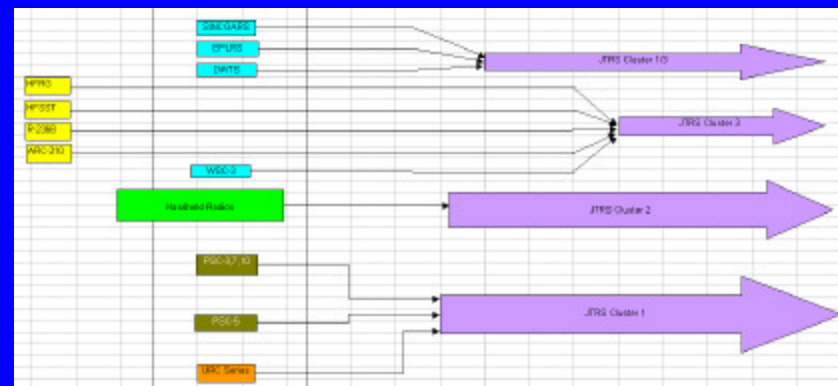
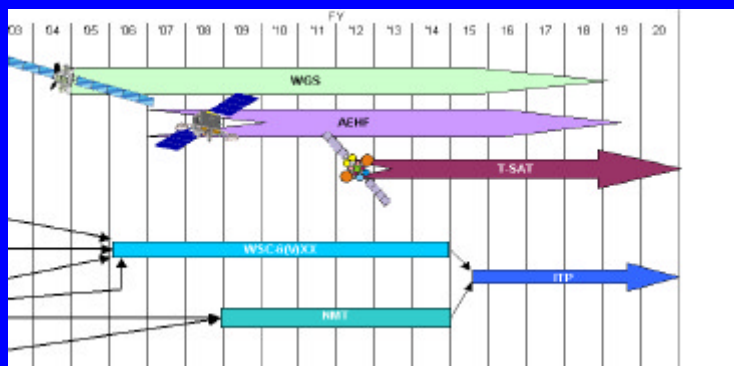
- Maximize Flexibility *"However One Wants"*
  - Develop components that can be used/customized by others
  - Leverage tools and initiatives developed independently
- Maximize Reuse *"By Whomever One Wants"*
  - Structure software components so that others can reuse them
  - Create "parts store" – SW components available for mixing and matching to create new capabilities
- Maximize Portability *"Wherever One Wants"*
  - Specify and implement standards carefully to promote re-use across multiple architectures



# DoN Communications Roadmap

## ❖ 75 Plus DoN Radios converging down to under 10 radio families

➤ 5 JTRS Clusters, TC SATCOM, LF Sub Comms, Dedicated Communications & Black Programs



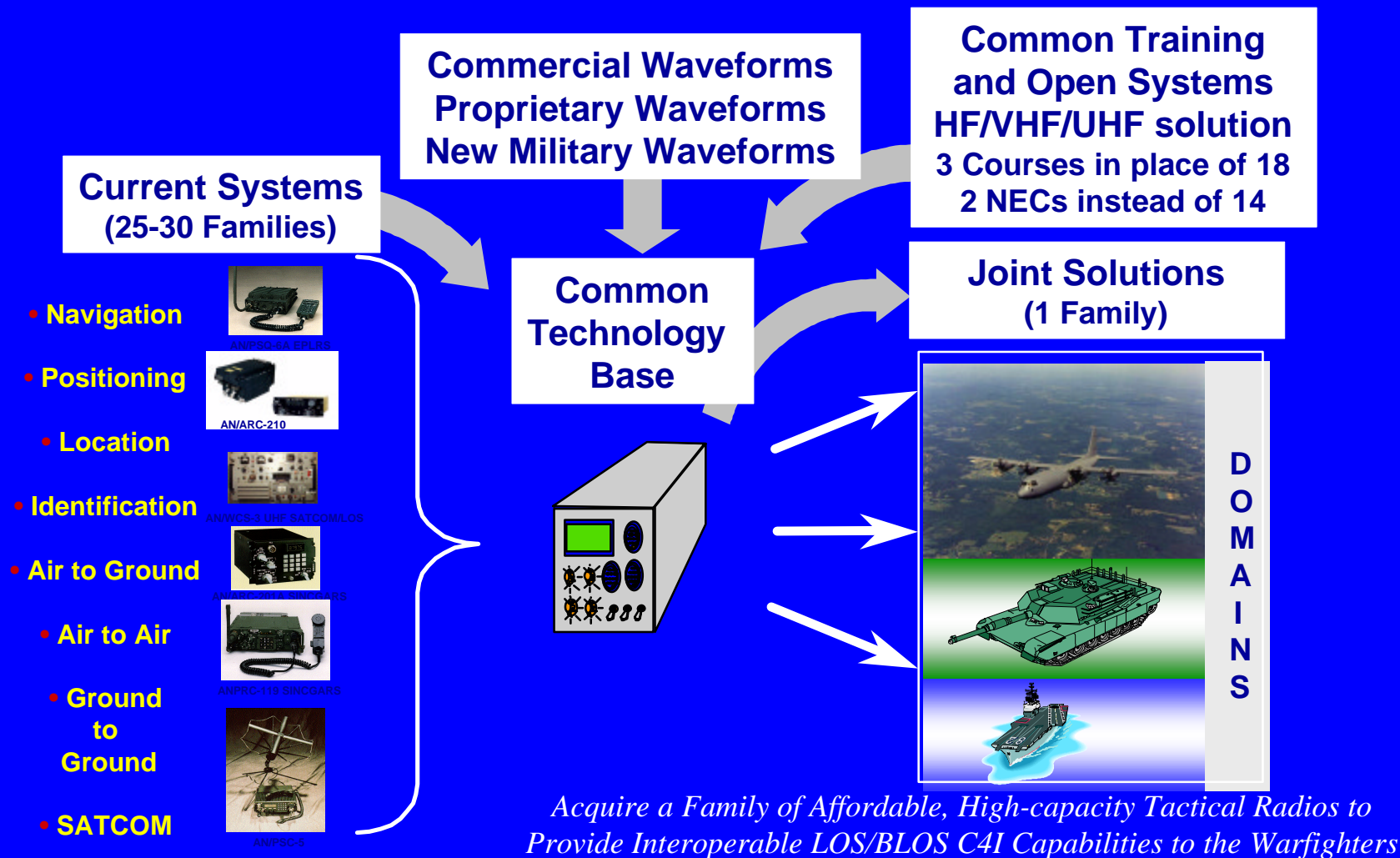
❖ Communications convergence yielding potential cost savings and early migrations to:

- TC DoD SCA SATCOM
- JTRS Based LOS Wideband Networking





# Joint Tactical Radio System (JTRS)



**Common Family of Radios Across DoD**



# FORCEnet:

*Examples of what we're delivering Today*

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## ❖ Coalition

➤ CENTRIXS

## ❖ SATCOM/Increased BW

➤ WSC-8 bandwidth improvement

➤ INMARSAT 128 kbps Modem

## ❖ Data Links

➤ MIDS

➤ Joint Range Extension (JRE)

## ❖ Command and Control

➤ GCCS-M (FORCEview, enhanced WebCOP, COP Synch tools, Websked)

## ❖ IM/KM Tools

➤ IRChat, K-Web, CAS



# Summary

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- ❖ **PEO C4I and Space is aligned to:**
  - **Streamline our acquisition business practices**
  - **Acquire & support C4I capabilities today**
  - **Develop transformational C4I capabilities to the joint warfighter tomorrow**



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